

# Homework 35 Part 2 — Form A

## Multiplying, Adding, and Subtracting Radicals

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

1.  $\sqrt{5}(4 - 2\sqrt{20})$

$$4\sqrt{5} - 2\sqrt{100}$$

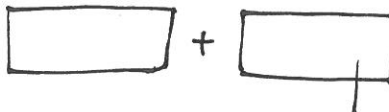
1



3.  $3\sqrt{3} + 4\sqrt{3} - \sqrt{5}$

2.  $2\sqrt{7} + \sqrt{7} + \sqrt{3}$

4.  $\sqrt{2}(9 + 2\sqrt{2})$

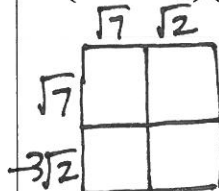


5.  $-\sqrt{45} - 4\sqrt{128} - 3\sqrt{54} - 2\sqrt{72}$

6.  $4\sqrt{6} + 4\sqrt{8} + 4\sqrt{54} + 3\sqrt{28}$

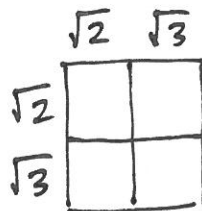
7.  $\sqrt{2}(2 - \sqrt{6})$

8.  $(\sqrt{7} + \sqrt{2})(\sqrt{7} - 3\sqrt{2})$



9.  $4\sqrt{7} + 3\sqrt{80} - 3\sqrt{24} + 4\sqrt{7}$

10.  $(\sqrt{2} + \sqrt{3})^2 = (\sqrt{2} + \sqrt{3})(\sqrt{2} + \sqrt{3})$



11.  $\sqrt{3}(3\sqrt{5} + 7)$

12.  $-\sqrt{3} - 6\sqrt{3} + 2\sqrt{12}$

COMMON PERFECT SQUARES:

4 9 16 25 36 49 64 81 100 121 144 225

Use when "breaking down" radicals